

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

70 Human Secreted Proteins

the specification **Serial No.09/148,545** of which was filed on **September 4, 1998**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

I	Filing Date	Application No
1.	07-Mar-1997	60/040,162
2.	07-Mar-1997	60/040,333
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4.	07-Mar-1997	60/040,161
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91.	06-Jun-1997	60/048,964
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PCT/US98/04482

(Application Serial No.)

6 March 1998

(Filing Date)

Pending

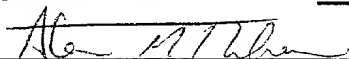
(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional first joint inventor:**Steven M. Ruben**

Inventor's signature:



Date:

5/11/99

Residence:

18528 Heritage Hills Drive, Olney, MD 20832

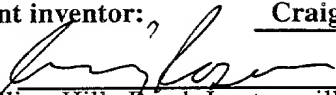
Citizenship:

US


Post Office Address:

same as above


Full name of additional joint inventor: Craig A. Rosen

Inventor's signature:  Date: 5/10/99
Residence: 22400 Rolling Hills Road, Laytonsville, MD 20882 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Carrie L. Fischer

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Full name of additional joint inventor: Daniel R. Bednarik

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

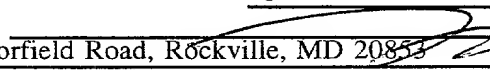
Full name of additional joint inventor: Gregory A. Endress

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Inventor's signature: *Paul E. Young* Date: 6/3/99
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Post Office Address: same as above

Full name of first joint inventor: John M. Greene
Inventor's signature: _____ Date: _____
Residence: 872 Diamond Drive, Gaithersburg, MD 20878 Citizenship: US
Post Office Address: same as above

Full name of first joint inventor: Ann M. Ferrie
Inventor's signature: _____ Date: _____
Residence: 120 Fox Run Drive Tewksbury, MA 01876 Citizenship: US
Post Office Address: same as above

Full name of first joint inventor: Roxanne Duan
Inventor's signature: *Roxanne Duan* Date: 5/10/99
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Post Office Address: same as above

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Inventor's signature: _____ Date: _____
Residence: 1247 Lakeside Drive, #3034, Sunnyvale, CA 94086 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Kimberly A. Florence
Inventor's signature: *Kimberly A. Florence* Date: 5/13/99
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Full name of additional joint inventor: Henrik S. Olsen
Inventor's signature: *Henrik Steen Olsen* Date: 5/10/99
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Post Office Address: same as above

Inventor's signature:

Date: 2/10/99

Residence: 9906 Shelburne Terrace, # 316, Gaithersburg, MD 20878

Citizenship: DE

Post Office Address: same as above

Inventor's signature:

Date:

Residence: 410 Van Dyke St. Apt. 115 St. Paul, Minnesota 55119-4321

Citizenship: US

Post Office Address: same as above

Inventor's signature:

Date:

Residence: 437 West Side Drive, Gaithersburg, MD 20878

Citizenship: CN

Post Office Address: same as above

Figure 1 shows a vertical sequence of 12 micrographs illustrating the development of a single embryo. The stages are labeled 1 through 12. Stage 1 shows a fertilized egg with two polar bodies. Stage 2 shows a two-cell stage. Stage 3 shows a four-cell stage. Stage 4 shows an eight-cell stage. Stage 5 shows a morula stage. Stage 6 shows a gastrula stage. Stage 7 shows an early larval stage. Stage 8 shows a larval stage with a yolk sac. Stage 9 shows a larval stage with a yolk sac. Stage 10 shows a larval stage with a yolk sac. Stage 11 shows a larval stage with a yolk sac. Stage 12 shows a hatched embryo.

5 of 5

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Full name of additional joint inventor: Jian Ni

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Full name of first joint inventor: Paul E. Young

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Full name of first joint inventor: Ann M. Ferrie

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Full name of first joint inventor: Roxanne Duan

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Full name of additional joint inventor: Jing-Shan Hu

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Full name of additional joint inventor: Kimberly A. Florence

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Full name of additional joint inventor: Henrik S. Olsen

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Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: _____ Date: _____

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Full name of additional joint inventor: Laurie A. Brewer

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Full name of additional joint inventor: Yanggu Shi

Inventor's signature: _____ Date: _____

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Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

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37.	11-Apr-1997	60/043,674
38.	11-Apr-1997	60/043,669
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PCT/US98/04482

(Application Serial No.)

6 March 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Inventor's signature: _____

Date: _____

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Full name of additional joint inventor: Daniel R. Bednarik

Inventor's signature:  Date: 6/18/99
Residence: 8822 Blue Sea Drive, Columbia, MD 21046 Citizenship: US
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Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
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Full name of first joint inventor: Ping Feng

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Full name of additional joint inventor: Yanggu Shi

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T00T0T-5205000

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301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

70 Human Secreted Proteins

the specification **Serial No.09/148,545** of which was filed on **September 4, 1998**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed

Yes

No

(Number)

(Country)

(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

I	Filing Date	Application No
1.	07-Mar-1997	60/040,162
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3.	07-Mar-1997	60/038,621
4.	07-Mar-1997	60/040,161
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7.	07-Mar-1997	60/040,336
8.	07-Mar-1997	60/040,163
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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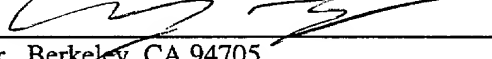
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Human Genome Sciences, Inc.
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301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

70 Human Secreted Proteins

the specification **Serial No.09/148,545** of which was filed on **September 4, 1998**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed

Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

I	Filing Date	Application No
1.	07-Mar-1997	60/040,162
2.	07-Mar-1997	60/040,333
3.	07-Mar-1997	60/038,621
4.	07-Mar-1997	60/040,161
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PCT/US98/04482

(Application Serial No.)

6 March 1998

(Filing Date)

Pending

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6 March 1998

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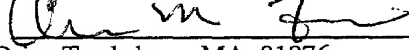
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Full name of additional joint inventor: Henrik S. Olsen

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Reinhard Ebner

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Post Office Address: same as above

Full name of additional joint inventor: Yanggu Shi

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

70 Human Secreted Proteins

the specification **Serial No.09/148,545** of which was filed on **September 4, 1998**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

I	Filing Date	Application No
1.	07-Mar-1997	60/040,162
2.	07-Mar-1997	60/040,333
3.	07-Mar-1997	60/038,621
4.	07-Mar-1997	60/040,161
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6.	07-Mar-1997	60/040,334
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8.	07-Mar-1997	60/040,163
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88.	22-Aug-1997	60/056,862
89.	22-Aug-1997	60/056,887
90.	22-Aug-1997	60/056,908
91.	06-Jun-1997	60/048,964
92.	05-Sep-1997	60/057,650
93.	22-Aug-1997	60/056,884

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US98/04482

(Application Serial No.)

6 March 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional first joint inventor:**Steven M. Ruben**

Inventor's signature:

Date:

Residence: 18528 Heritage Hills Drive, Olney, MD 20832

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen

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Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
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Full name of first joint inventor: Ping Feng

Inventor's signature: _____ Date: _____
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Full name of first joint inventor: John M. Greene

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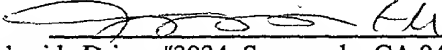
Full name of first joint inventor: Ann M. Ferrie

Inventor's signature: _____ Date: _____
Residence: 120 Fox Run Drive Tewksbury, MA 01876 Citizenship: US
Post Office Address: same as above

Full name of first joint inventor: Roxanne Duan

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Jing-Shan Hu

Inventor's signature:  Date: 6/8/99
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PCT/US98/04482

(Application Serial No.)

6 March 1998

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Pending

(Status: patented, pending, abandoned)

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Full name of additional first joint inventor:**Steven M. Ruben**

Inventor's signature: _____

Date: _____

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Full name of additional joint inventor: Craig A. Rosen

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Full name of additional joint inventor: Jian Ni

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Full name of first joint inventor: John M. Greene

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Full name of first joint inventor: Ann M. Ferrie

Inventor's signature: _____ Date: _____
Residence: 120 Fox Run Drive Tewksbury, MA 01876 Citizenship: US
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Full name of first joint inventor: Roxanne Duan

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301-309-8504 Phone 301-309-8439 Fax

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Ruben et al.

Application Serial No.: TBA

Art Unit: TBA

Filed: concurrently herewith

Examiner: TBA

For: **Secreted Protein HRGDF73**
(as amended herein)

Attorney Docket No.: **PZ001G67AP1D1**

ASSOCIATE POWER OF ATTORNEY

Commissioner for Patents
Washington, D.C. 20231

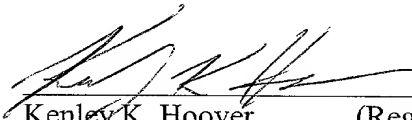
Sir:

Applicants' Attorney hereby appoints all Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Applicants' Attorney also requests that the correspondence address remain the same.

Respectfully submitted,

Dated: October 19, 2001


Kenley K. Hoover (Reg. No. 40,302)
Attorney for Applicants

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KKH/ur